Claims

spool having a longitudinal axis and being displaced to and fro in a direction of the longitudinal axis by means of a cam drive which actuates a spindle member connected to the spool, the cam drive including a guide part having a guide slot and connected to the spindle member, and a gear rotated by a crank drive of the fishing reel, said gear comprising a cam stud and means for excentrically mounting the cam stud to rotate in a circular path about an axis of rotation, said stud entering the guide slot and sliding along sidewalls of the slot to displace said guide part and therefore the spool in the longitudinal direction, the improvement wherein said slot has an S shape, said sidewalls forming means for causing the travel speed of the guide part to rise at reversing positions of travel and to drop at side positions located approximately midway between the reversing positions on the circular path of the eam-stud.

2. An improvement as claimed in claim 1, wherein the guide slot has an elongated S shape, the cam stud being approximately midway in the S when at the reversing positions and in one of the end zones of the S when at the side positions (A,C), wherein the longitudinal direction of the S subtends an approximately 90° angle with respect to the travel direction, and wherein during a transition from one reversing position to a next side position, and from the next side position to a next reversing position, the guide part is imparted continuously changing travel speeds as a result of the shape of the guide slot and displacement of the cam stud.

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- 3. An improvement as claimed in claim 2, wherein segments of the sidewalls in which the cam stud is located before reversal of the spool travel are offset to a greater degree in the direction of travel than are segments at or near the side positions.
- 4. An improvement as claimed in claim 2, wherein a shape and a position of the elongated S relative to the travel direction are such that the sidewalls of the guide slot are shifted in midway zones thereof in the direction of travel, with the result that each time an enlargement results in the travel implemented by rotation of the cam stud.
- An improvement as claimed in claim, wherein the elongated S is in the form of a mirror-inverted letter S.
 - 6. An improvement as claimed in claim 2, wherein there is a lack of geometric congruence between arcuate zones of the guide slot and the circular path of the cam stud.
 - 7. An improvement as claimed in claim 2, wherein near the two side positions, an angle of the sidewalls relative to the travel direction is approximately 40-45°, and an angle of the sidewalls near the reversing positions in the direction of travel is approximately 70-75°, slopes of the sidewalls relative to the travel direction changing continuously, without abrupt transitions from one position to the next.

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